TRANSLATION PATENT COOPERATION TREATY POT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 42 290.:nb	FOR FURTHER ACTION	See Form PCT/IPEA/416				
International application No.	International filing date (day/month/year)	Priority date (day/month/year)				
PCT/EP2004/012780	11.11.2004	13.12.2003				
International Patent Classification (IPC) or national classification and IPC						
F16D7/02, F16D1/08, F16D3/06						
Applicant SMS DEMAG AKTIENGESELLSCHAFT						
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.						
2. This REPORT consists of a total of _	4 sheets, include	ling this cover sheet.				
3. This report is also accompanied by ANNEXES, comprising:						
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:				
		n amended and are the basis for this report and/or				
sheets containing red Instructions).	sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions)					
sheets which superso	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond					
the disclosure in the Box.	e international application as filed, as indicat	ed in item 4 of Box No. I and the Supplemental				
b. (sent to the International i	Bureau only) a total of (indicate type and num	ber of electronic carrier(s))				
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see						
Section 802 of the Administrative Instructions).						
4. This report contains indications relating	ng to the following items:					
Box No. I Basis of the	Box No. I Basis of the report					
Box No. II Priority	Box No. II Priority					
Box No. III Non-establi:						
Box No. IV Lack of unit						
BON 1.0.	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;					
	citations and explanations supporting such statement Box No. VI Certain documents cited					
Date of submission of the demand	Date of completion of	this report				
Name and mailing address of the IPEA/EP	Authorized officer					
Trank and maining address of the IFEAVEP	Authorized officer					
Facsimile No.	Telephone No.					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/012780 Box No. I Basis of the report With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following language ___ which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/or 55.3) With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the international application as originally filed/furnished the description: as originally filed/furnished received by this Authority on received by this Authority on the claims: as originally filed/furnished as amended (together with any statement) under Article 19 _____ received by this Authority on received by this Authority on the drawings: sheets as originally filed/furnished received by this Authority on sheets* _____ received by this Authority on ____ sheets* a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages _____ the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages ___ the claims, nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify): If item 4 applies, some or all of those sheets may be marked "superseded."

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International application No.
PCT/EP2004/012780

Box			ticle 35(2) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-9	YES
		Claims		NO
	Inventive step (IS)	Claims	1-9	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-9	YES
		Claims		NO

- 2. Citations and explanations (Rule 70.7)
 - 1. With regard to claim 1:

Claim 1 meets the requirements of PCT Article 33(2) to (4) for novelty, inventive step and industrial applicability.

Since none of the documents cited in the search report or acknowledged in the introductory part of the description contains all of the features of independent claim 1, the subject matter of claim 1 is novel.

A person skilled in the art is not prompted by any of the search report citations to design an overload safety coupling forming a bridge between a toothed spindle section and an interference-fit spindle section according to DE-C-43 26 868 with a rotating sliding sleeve according to the characterizing part of claim 1. The feature whereby the rotating sliding sleeve, which at one end takes up the toothed spindle section in an axially displaceable manner with inner toothing and at the other end encloses the spindle section with an inner sleeve in the interference fit, and whereby a rear sleeve-like projection of the rotating sliding sleeve forms, by means

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

of a pressure sleeve and a pressure gap tensioned by pressure medium, a rotationally rigid frictional connection that yields in the case of overload, is the result of a step that is not a straightforward development of the cited prior art. The safety coupling according to claim 1 therefore involves an inventive step.

The subject matter of claim 1 can be made and used, and is therefore industrially applicable.

2. With regard to claims 2 to 9:

Dependent claims 2 to 9 contain advantageous and nonobvious embodiments of a safety coupling according to claim 1.

Claims 2 to 9 therefore also meet the requirements for novelty, inventive step and industrial applicability under PCT Article 33(2) to (4).